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Ostrov Planirovaniya Ferevozok in Zheleznodarozhnom Transporte (Fundamentals of the Flanning of Hauling on Railroad Transport), Yu. I Keldomasov, Gosudarstvennoye Transportnoye Zheleznodorozhnoye Isdatel sivo, Moscow, 1949, pp 24-30,

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### DISTRIBUTION OF FREIGHT FLOW AMONG VARIOUS TYPES OF TRANSFORT IN THE USSR

Preight turnover and the average length of have of freight for the different types of transportation in the USSR in 1940, 1946, and in the final year of the current Five-Year Plan are shown in the following table

	Year	Rati-	River	Maritime	Motor V=hicle	Aviation	line
Freight turniver in tin-kalometers (%)	1940 1946 1950	85 2 84 9 80 0	7.4 5.1 7.4	4 7 7 2 7 5	1 7 1 9 3 7	0.1	0.9 0.9 1.3
Average length of haul of freight (km)	1940 1946 1950	700 740 690	488 512 542	746 1,428 1,340	10 12 13		

The distribution of freight flow among the different types of transportation in the USSR is carried out on the basis of the following factors:

- I The relative location of the producing areas and the consuming areas with regard to the routes of the different types of transport.
- $\ensuremath{\mathfrak{g}}$  . Located carrying capacity and routes of empty runs on the different types of transport.
  - 3 Rate of delivery by the different types of transport.
- h. Freight rates and the cost of hauling freight by the different types of transport
  - 5 Freductivity of different types of transport in transporting freight.

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Influence of the Speed of Delivery on the Distribution of Freight Flow Among Different Types of Transport

At the present state of the economic development of the USSR, when all material resturces are being mobilized for the rapid postwar restoration and development of the national economy, the speed factor of hauling exerts a development in the distribution of freight flow, particularly between the triad and river transport

When there are insufficient operational reserves of a number of material resources in the consumption areas, the difference in the times of delivery of freight by railroan and river transpirt determines whether or not freight is the diverted from river to railroad transport. This applies particularly to be diverted from river to railroad transport to by river transport causes to so de particular diversion if material resources from the sphere of production than when railroad transport is used.

The difference in times of delivery of slow freight by railroad and water transport, set up by somewhat antiquated regulations still in force, is above in the following table:

#### Preight Delivery Schedules (in 24-hour periods)

Route	By Railroad	By River Downstream Upstream
Taroslavi - Astrakhan Yaroslavi - Stalingrad Yaroslavi - Saratov Yaroslavi - Kuybyshev Yarislavi - Gor kiy Gor kiy - Stalingrad Gor kiy - Stalingrad Gor kiy - Saratov Gor kiy - Kuybyshev Kuybyshev - Astrakhan Kuybyshev - Saratov Savatov - Saratov	13.0 10.0 9.5 8.5 3.5 12.0 11.0 9.5 7.0 6.5 3.5 3.5 3.5	15 0 30.0 13.0 24.0 11.0 20.0 8.0 15.0 4.0 5.0 11.0 27.0 11.0 22.0 9.0 17.0 7.0 12.0 9.0 17.0 7.0 12.0 7.0 12.0 7.0 12.0 7.0 7.0 7.0
Sacatov - Bearing, an		houling of bu

Because freight delivery by river transport is slow, long hauling of bulk freight by water transport has been diverted to the railroad to the extent shown in the following table

#### Average Length of Haul (km)

	River	d Railroad Transport	Fetro River Transport	leum Railroad Transport	All Fr River Transport	Railread Transport
1928 1940 1945 1946 19 <sup>1</sup> 7	77 ansport 554 360 314 368 384	500 1,019 780 830 860	1,645 1,259 1,163 996 1,000	728 1,234 1,115 1,117 1,074	870 488 507 510 530	498 700 794 745 709

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A. Shown in the above table, the relationship between the length of haul of freight by railroad and river transport up to 1945 was generally unfavorable, and only in 1946 was this situation improved. When the average length of baul by the resiroads increased, there was a decrease in the average length of rous by river transport.

In the last few years it was planned to increase the length of haul of freedom it liver transport, but this increase cannot be called adequate. In 1907, one average length of haul of retrieum and petroleum products on the positional exceeded the average length of haul on river transport by an average 1979, imported whereas thereof in 1940, the average length of haul of petroleum and principles products by river transport had been greater than on railroad transport

## Influence of Hates and Cost of Hauling on the Distribution of Freight Flow Among Different Types of Transport

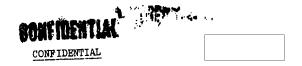
The cost of hauling and freight rates have almost as great an influence on the distribution of freight flow among the different types of transport as does the speed of hauling. The freight rate policy in the USSR provides a test stimulus for proper utilization of the different types of transport and for a universal development of freight hauling both by water transport and by combined ratioand and water transport

Revenue freight rates, introduced 1 January 1949, must correspond to the planned cost of hauling calculated for 1950. For each ton-kilometer, they amounted to: 5.395 kepecks (5.75 including extra charges) by railroad transport, 4.0 kepecks by river transport, and 3.5 kepecks by maritime transport

To ottimulate hauling, particularly of wood and petroleum, by river transport, lower freight rates are established for river transport than for railroad transport, as is shown in the following table:

The sea about	Freight Rate per Ton-Mm (kopecks)		
Freight	By Railroad Transport	By River Transport	
Average rates for all freight	5 395	40	
Fixest products	4 63	2.22 (when hauling wood in rafts)	
Petrolega and petroleum products	<del></del>	4 1.7	
Including. Gasoline and lubricating oil Kerosene and ligroin Dark petroleum	6 08 5 57 5-52	=======================================	
Dry freight Coal and coke Fuel wood All cres Cotton Paper Cement Local construction materials	. 3 72 6 71 3 78 5 95 6 22 5 05 6 03	5. 86    	

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The average freight rate is 1.5 times lower by maritime transport than by ratifical transport. Rates established for hauling one ton of basic types of freight equal distances by railroad and maritime transport are shown in the following table (in rubles and kepecks):

Tyres of Preight and Transport	Distance of Hauling		
Tyres of Free goo and I am	By Railroad 185 Km, by Sea 100 Miles	By Railroad 1,482 Km, by Sea 800 Miles	
Coa. By railread	10-34	53-10 20-02	
23 208	6-58		
Ore By railread By sea	9-08 6-58	51-30 20-02	
Wald By railroad By sea	14-51 9-52	58-20 26-98	
Cement By ratificad By sea	15-88 7-98	71-25 24-08	
Grain By rawiread By sea	14-48 13-72	64-90 41-58	
Citton By railriad By sea	19-86 19-88	85-18 59-92	

The lower rates are established for river and maritime transport to encourage freight hauling by water transport. Also, the rates for maritime transport stimulate maritime hauling in directions not only parallel to the railroads, but also in the empty directions of the railroads.

For river transport the freight rates are set up in such a way that the total freight charges for hauling freight in directions parallel to the rail-roads and in combined railroad and water transport are 20-30 percent lower than by railroad

The Council of Ministers USSR in a decree of 8 November 1948, "Concerning flates for Hadling Freight by Railroad Transport," maintained the previously need 30 percent reduced rate for hadling freight by combined railroad and water transport and established exceptionally high rates for hadling freight by railroad in directions parallel to water transport during the navigation period

While the rates, from the viewpoint of organizations based on cost accounting which use the transport services, are a suitable criterion of the economic utilization of a certain type of transport for hauling freight, they cannot serve as the single criterion of the economically practical distribution of freight flow among the various types of transport from the national economy viewpoint, because they do not reflect the actual material and labor expenditures for hauling freight by specific routes.



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This is explained in a number of ways. First, the rates for railroad, river, and maritime transport are set up on the basis of mean revenue freight rates which correspond to the average planned costs of hauling freight on the respective types of transport. Meanwhile, the cost of hauling, which reflects the actual material and labor expended in the moving of freight, reflects the actual material and labor expended in the moving of freight, depends on a large number of factors. Track profile, types of locomotives depends on a large number of factors. Track profile, types of locomotives depends on a large number of factors. In spite of and cars. It advants the revenue freight rates on all railroad lines remain, as a fine fact that the revenue freight rates on all railroad lines remain, as a function trailroad systems and lines. For example, in 1948 the planned cost, for the two-kilometer in through traffic was 1.78 kepecks for the Omsk Railroad System and 12.79; kepecks for the L vov Railroad System. Thus, the read System and 12.79; kepecks for the L vov Railroad System. Thus, the freight rates imposed in hauling freight do not reflect the actual expendinged or labor and materials in moving freight and thus cannot serve as a single criterion for appraising the efficiency of the distribution of the freight flow among the various types of transport from a national economy standpoint.

Also, while there is a conformance of the mean revenue freight rates to the average planned costs of hauling freight as a whole on the various types of transport, this conformance does not remain constant for various types of freight. Thus, freight revenue received for hauling coal and other types of one group by railroad transport is less than the cost of hauling freight. This deficit is made up by increasing the revenue from freight above the cost of hauling certain freight in another group. In river transport the revenue freight rates in effect at present and the planned cost of hauling computed for 1950 are shown in the following table:

10 anning 50 mg	Revunde Freight Rates per Ton-Km (kopecks)	Flanned Cost of Hauling per Ton-Km (kopecks)
All freight	μO	¥. O
Including: Wood in rafts Petroleum Ory freight	a 22 £ 17 5 86	1.4 2 h 7.24

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